HYDROLOGY

L22/D35A
1 PLAN

L22/D35A

1 PLAN

DRAINAGE PLAN

TRACT B-1-A-1-A, DORADO VILLAGE UNIT 3

ALBUQUERQUE, NEW MEXICO

ZONE MAP L-22 BENCHMARK N.M. BER. 4 ELEV. 5560.11

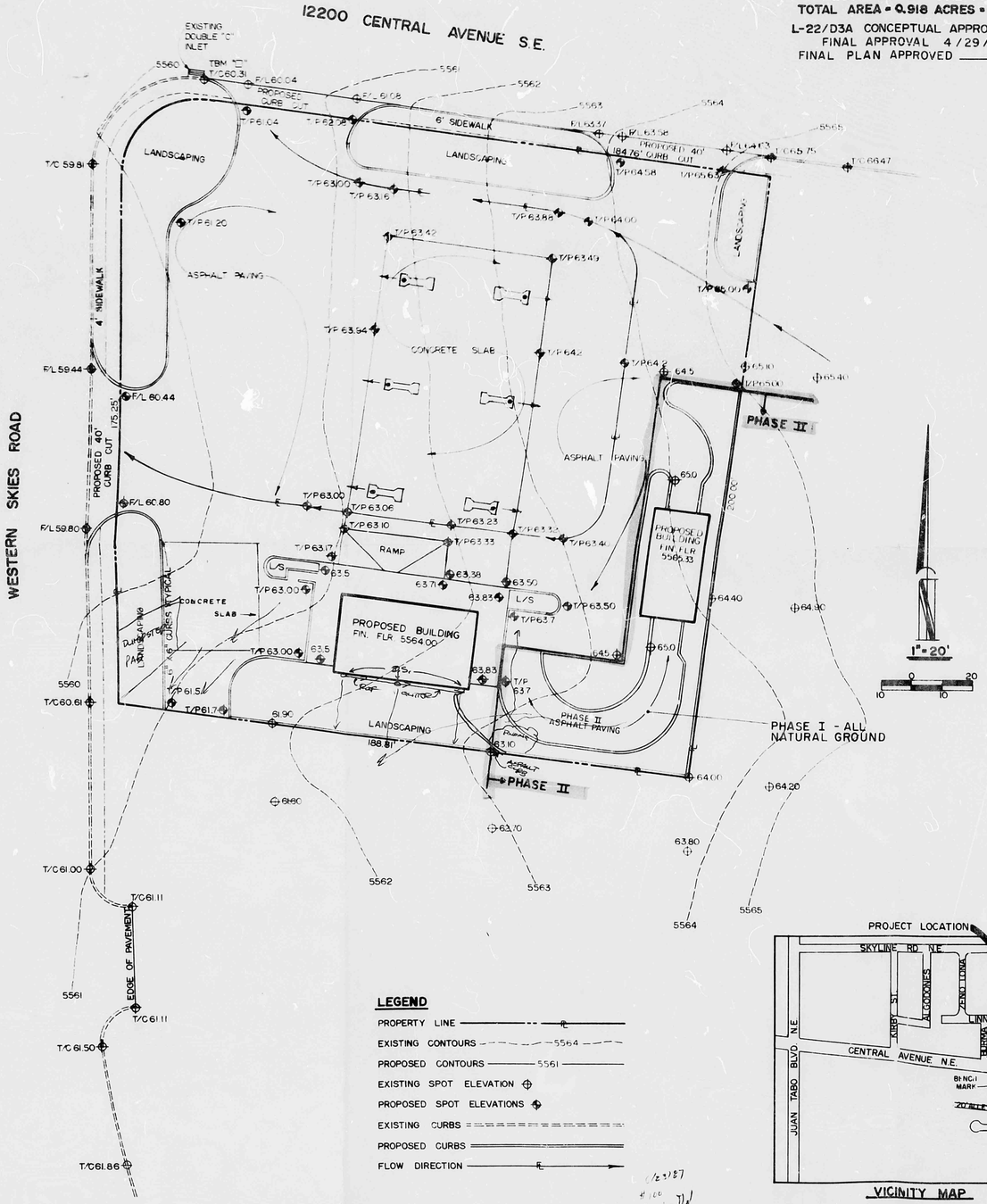
FLOOD MAP 37 SOIL TYPE "B"

TOTAL AREA = 0.918 ACRES = 40,000 S.F.

L-22/D3A CONCEPTUAL APPROVED 11/6/86

FINAL APPROVAL 4/29/87

FINAL PLAN APPROVED _____



HYDROLOGY

OFF-SITE DRAINAGE: AREA TO NORTHEAST 200' X 800' = 4 ACRES±
Cu = 0.40, I = 2.3 X 2.15 = 5.38, Qu = 0.40 X 5.38 X 4 = 8.6 C.F.S. TO BE ROUTED THROUGH PROJECT TO CURB CUT ON CENTRAL AVE.
Qo = 17 C.F.S.± TO BE ROUTED TO DISCHARGE POINT AT COCHITI ROAD.

ON-SITE DRAINAGE: Qu = 0.40 X 5.38 X 0.918 = 1.98 C.F.S. EXISTING

PHASE II Cp = 1,857 S.F. X 0.90 = 1,671
30,643 S.F. X 0.95 = 29,111
7,500 S.F. X 0.25 = 1,875
40,000 — 32,657 / 40,000 = C = 0.81

THEREFORE Qp = 0.81 X 5.38 X 0.918 = 4.00 C.F.S. PROPOSED = 2.02 C.F.S. ADDITIONAL OVER EXISTING AND = 1.26 C.F.S. TOTAL TO BE ROUTED THROUGH 1-40' CURB CUT

PHASE I Cp = 11,200 S.F. X 0.90 = 10,080
4,650 S.F. X 0.45 = 2,093
27,950 S.F. X 0.95 = 26,553
8,200 S.F. X 0.25 = 2,550
40,000 — 41,276 / 40,000 = C = 0.78

Qo = 0.73 X 5.38 X 0.918 = 3.85 C.F.S., PROPOSED = 87 MORE THAN EXISTING AND 12.43 C.F.S. TOTAL TO BE ROUTED THROUGH 1-40' CURB CUT

HYDRAULICS

40' CURB CUT ON 10% GRADE HAS CAPACITY OF Q = 10.0 S.F. X $\frac{1.486}{0.015}$ X 0.4 X 0.1000 = 40 C.F.S., AND IS ADEQUATE FOR PROPOSED FLOW.

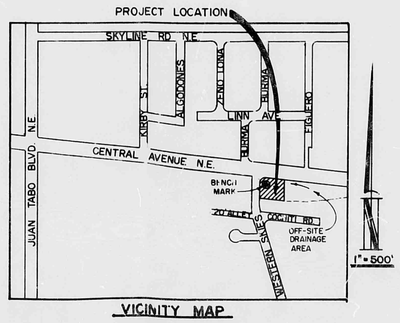
EROSION CONTROL NOTES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE TO THE FOLLOWING:

1. NO SEDIMENT BEARING WATER SHALL BE ALLOWED TO DISCHARGE THE SITE DURING CONSTRUCTION.
2. DURING GRADING OPERATIONS AND UNTIL THE PROJECT HAS BEEN COMPLETED, ALL ADJACENT PROPERTY, RIGHTS OF WAY, AND EASEMENTS SHALL BE PROTECTED FROM FLOODING.
3. ANY AND ALL SEDIMENTATION ORIGINATING ON THE SITE WHICH IS DEPOSITED WITHIN PUBLIC RIGHT OF WAY SHALL BE PROMPTLY AND COMPLETELY REMOVED BY THE CONTRACTOR.
4. CONTROL OF SEDIMENT-LADEN FLOOD WATERS WILL BE ACCOMPLISHED BY THE USE OF A COMPACTED EARTH BERM AT LEAST 12" HIGH. BERM SHALL BE CONSTRUCTED ALONG THE DOWNSTREAM PERIMETERS OF THE PROPERTY.

LEGEND

- PROPERTY LINE
- EXISTING CONTOURS — 5564
- PROPOSED CONTOURS — 5561
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATIONS
- EXISTING CURBS
- PROPOSED CURBS
- FLOW DIRECTION



VICINITY MAP

APPROVED FOR DRAINAGE
7-23-87
DATE
Roger D. Green PE Hydrology
SIGNATURE TITLE

RECEIVED JUL 14 1987 HYDROLOGY SECTION

REVISED 7/8/87

LOGAN/GROSS & ASSOCIATES, INC.
CONSULTING CIVIL ENGINEERS
925 6TH ST. N.W. SUITE 3 243-6353
ALBUQUERQUE, NEW MEXICO 87102

DRAINAGE PLAN	FILE # H-150
FOR: ROBERTS OIL COMPANY	DATE 4/11/87
AT 12200 CENTRAL AVE. N.E.	DRAWN C.L.L.
ALBUQUERQUE, NEW MEXICO	SHEET 1 OF 1

4/13/87

H-150